

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Company Information

1. Company Name	UGI Utilities, Inc.	2. Date:	March 31, 1994
3. Gas Star Contact:	J C. Rondeau		
4. Position:	Division Engineer - Environmental Compliance		
5. Address:	P.O. Box 12677		
	100 Kachel Blvd., Suite 100		
	Reading, PA	19612-2677	
	City	State	ZIP
6. Type of Company: <small>(e.g., distribution, transmission)</small>	Local Distribution	7. SIC Code:	4924
8. Telephone:	(610) 796-3532	9. FAX:	(610) 796-1167
10. Best Time to Call:	0800 - 1630		
11. Signature:			

Implementation Report Summary

Please mark the Best Management Practices which are applicable for your company.

XXX	I.	Implement Directed Inspection and Maintenance Programs at Surface Facilities.
XXX	II.	Identify and Rehabilitate Leaky Distribution Pipe.
	III.	Implement Directed Inspection and Maintenance Programs at Compressor Stations
	IV.	Use of Turbines at Compressor Stations for New Installations or When Retiring Reciprocating Engines
XXX	V.	Identify and Replace High-Bleed Pneumatic Devices
	VI.	Other - Please Specify: _____

Please Complete An Attached BMP Implementation Report For Each Applicable BMP

Send completed forms to:	Andrea Osborne Director, Natural Gas STAR Program USEPA 401 M Street SW, Washington, DC 20460 (202) 233-9569
or FAX to:	
Questions? Call:	(202) 233-9044

OMB # _____ Exp. 9/99/99

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Natural Gas STAR Partner BMP Implementation Plan BMP I Directed Inspection and Maintenance (I&M) at Surface Facilities

Company Name: UGI Utilities, Inc. Date: March 31, 1994

1. Will directed inspection and maintenance (I&M) at surface facilities be included in your BMP Implementation Plan? XXX Yes
No
(If YES, please complete items 2-5).

2. Total number of surface facilities: ^a	Column I	Column II	Total
	Surface Facilities Selected for BMP	Surface Facilities Not Selected for BMP	
2a. Total Number of Gate Stations	19	--	19
2b. Total Number of Other Surface Facilities	157	--	157
2c. Total	176	--	176

3. Please describe why the surface facilities in Column II for Item 2 (above) are not included in this BMP. (attach a separate sheet if necessary):^b

4. Frequency of surveys (e.g., quarterly, biannually): Annual

5. Facilities implementing plan by the end of:^c

Year 1:	0
Year 2:	88
Year 3:	88

Comments (Attach a separate sheet if necessary): Year 1 shows no implementation since UGI Utilities, Inc. only participated for a partial year.

- a Surface facilities include: gate; pressure regulating; and metering stations; and other surface facilities. If possible, list separately the number of gate stations in your system and the number that will be included in the Natural Gas STAR Program.
- b Natural Gas STAR partners agree to justify the exclusion of any facilities from the plan.
- c Natural Gas STAR partners agree to implement selected BMPs within three years of joining the Program.

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Natural Gas STAR Partner BMP Implementation Plan BMP II Identify and Rehabilitate Leaky Distribution Pipe

Company Name: UGI Utilities, Inc.

Date: March 31, 1994

1. Will identifying and rehabilitating leaky distribution pipe be included in your BMP implementation Plan? (If YES, please complete items 2-4). xxx Yes
No

2. Total Distribution pipe mileage:	Column I Mileage Selected for this BMP	Column II Mileage Not Selected for this BMP	Total Mileage
Distribution pipe mileage (miles):	1346	2564	3910

3. Please describe why the mileage in Column II for Item 2 (above) is not included in this BMP. (attach a separate sheet if necessary):^a

Of the 2564 miles not included, 888 miles are plastic pipe and 1676 miles are cathodically-protected coated steel pipe. Both types of pipe are recent installations and are not subject to corrosion failure or rehabilitation at this time. The 2564 miles are not included because they do not fit the corrosion or rehabilitation criteria for the Best Management Practices program.

4. Mileage (Column I for Item 2) to be included by the end of:

Year 1:	<u>1346</u>
Year 2:	<u>1346</u>
Year 3:	<u>1346</u>
Years 4-10:	

Comments

(attach a separate sheet if necessary): Additional inspection is conducted annually on 1/3 of the 2564 miles not included in this plan.

a Natural Gas STAR partners agree to justify the exclusion of any pipeline mileage from the plan.

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Natural Gas STAR Partner BMP Implementation Plan BMP III

Directed Inspection and Maintenance Programs at Compressor Stations

Company Name: UGI Utilities, Inc. Date: March 31, 1994

1. Will directed inspection and maintenance (I&M) at compressor stations be included in your BMP Implementation Plan? (If YES, please complete items 2-5). Yes
XXX No

2. Compressor station characteristics:

Column I
Compressor Stations
Selected for BMP

Column II
Compressor
Stations Not
Selected for BMP
Total

2a. Total Number of Compressor Stations

2b. Total Compressor Station Horsepower

		0
		0

3. Please describe why the compressor stations in Column II for Item 2 (above) are not included in this BMP. (attach a separate sheet if necessary):^a

4. Frequency of compressor station surveys (e.g., quarterly, biannually): N/A

5. Total number of stations implementing BMP by the end of:^b
- | | |
|---------|---|
| Year 1: | 0 |
| Year 2: | 0 |
| Year 3: | 0 |

Comments (Attach a separate sheet if necessary):

- a Natural Gas STAR partners agree to justify the exclusion of any facilities from the plan.
b Natural Gas STAR partners agree to implement selected BMPs within three years of joining the Program.

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Natural Gas STAR Partner BMP Implementation Plan BMP IV

Use of Turbines at Compressor Stations for New Installations or When Retiring Reciprocating Engines

Company Name: UGI Utilities, Inc. Date: March 31, 1994

1. Will your company use turbines at new compressor installations or when retiring reciprocating engines? (If YES, please complete items 2-5). Yes
XXX No

2. Compressor Station Engine Characteristics

2a. Total Number of Compressor Engines

2b. Total Horsepower

2c. Total Fuel Use (e.g., MMcf/yr)

2d. Total Number of Engines With Emission Controls

Turbine Engines	Reciprocating Engines	Other Engines	Total
			0
			0
			0
			0

3. Frequency of surveys (e.g., quarterly, biannually): N/A

4. Compressor engines implementing BMP by the end of:

	New Installations	Retire Reciprocating
Year 1:		
Year 2:		
Year 3:		
Years 4-10:		

Comments

(Attach a separate sheet if necessary):

5. Total number of retiring reciprocating engines to be replaced with reciprocating engines:^a N/A

Justification

(Attach a separate sheet if necessary):

^a Natural Gas STAR partners agree to justify the exclusion of any facilities from the plan.

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Natural Gas STAR Partner BMP Implementation Plan BMP V Identify and Replace High-Bleed Pneumatic Devices

Company Name: UGI Utilities, Inc. Date: March 31, 1994

1. Will your company include identifying and replacing high-bleed pneumatic devices in your BMP Implementation Plan? xxx Yes
(If YES, please complete items 2-4.) No

2. Number of high-bleed pneumatic devices in system: nine (9)

Comments (attach a separate sheet if necessary):

3. Number of high-bleed pneumatics to be replaced:

Number to be replaced by the end of:

Year 1: 0 (1993)

Year 2: 3 (1994)

Year 3: 3 (1995)

Years 4-10: 3

Comments (attach a separate sheet if necessary):

4. Number of high-bleed pneumatics to be replaced with high-bleed pneumatics:^a -0-

Justification (attach a separate sheet if necessary):

^a Natural Gas STAR partners agree to justify the replacement of any high-bleed pneumatics with other high-bleed pneumatics instead of using low-bleed or no-bleed devices.

NATURAL GAS STAR PROGRAM IMPLEMENTATION PLAN



Natural Gas STAR Partner BMP Implementation Plan BMP VI Additional Methane Reduction Best Management Practices

Company Name: UGI Utilities, Inc. Date: March 31, 1994

1. Will your company include additional Best Management Practices that will reduce methane emissions in your implementation report. Yes
No
xxx
(If YES, please complete items 2-6.)

2. Please describe the procedure or technology for this BMP:
(attach a separate sheet if necessary):

3. Please describe the number of components or parts of the system this BMP applies to. (For example, a BMP could apply to all compressor stations or to all cast iron pipes.)
(attach a separate sheet if necessary):

4. What portion of your system will implement this BMP by end of: Year 1:
Year 2:
Year 3:
Years 4-10:

Comments
(attach a separate sheet if necessary):

5. What are the estimated emission reductions associated with this BMP? Describe the baseline emissions before applying BMP to achieve reductions:^a (attach a separate sheet if necessary):

6. Please briefly describe how these emission reduction estimates are calculated?
(attach a separate sheet if necessary):

a Depending on the nature of the BMP, methane emission reductions could be expressed as mcf per year; mcf per facility covered; or mcf per mile of pipe covered. Baseline emissions are the emissions in the absence of this BMP. Emission reductions equal baseline emissions (before using the BMP) minus estimated emissions after using the BMP.

Natural Gas STAR Partner BMP Implementation Plan
BMPI - Directed Inspection and Maintenance at Surface Facilities

UGI Utilities, Inc. - Gas Division

GasSTAR ID#: UGI1

31-Mar-94

1. ☒ Will directed inspection and maintenance (IM) at surface facilities be included in your BMP Implementation Plan?

2. Total number of Surface Facilities

	Column I Surface Facilities selected for BMP	Column II Surface Facilities not selected for BMP	Totals
2a. Total Number of Gate Stations	19	0	19
2b. Total Number of Other Surface Facilities	157	0	157
2c. Total	176	0	176

3. Please describe why the surface facilities in Column II for Item 2 (above) are not included in the BMP.

4. Frequency of Surveys (x per year):

Annually:

5. Facilities implementing plan by the end of:

Year 1: 0
 Year 2: 88
 Year 3: 88
 Year 4 - 10:

Comments: Year 1 shows no implementation plan since UGI Utilities, Inc. only participated for a partial year.

Natural Gas STAR Partner BMP Implementation Plan
BMP II - Identify and Rehabilitate Leaky Distribution Pipe

UGI Utilities, Inc. - Gas Division

GasSTAR ID#: UGI1

31-Mar-93

1. ☒ Will identifying and rehabilitating leaky distribution pipe be included in your BMP Implementation Plan?

2. Total distribution pipe mileage:

	Column I Mileage Selected for this BMP	Column II Mileage Not Selected for this BMP	Totals
Distribution pipe mileage (miles):	1,346.00	2,564.00	3,910.00

3. Please describe why the mileage in Column II for Item 2 (above) is not included in this BMP:

Of the 2564 miles not included, 888 miles are plastic pipe and 1676 miles are cathodically-protected cated steel pipe. Both types of pipe are recent installations and are not subject to corrosion failure or rehabiliataion at this time. the 2564 miles are not included because they do not fit the the corrossion or rehabilitation criteria for the Best Management Practice program.

4. Mileage (Column I for Item 2) to be included by the end of:

Year 1:	1,346
Year 2:	1,346
Year 3:	1,346
Years 4-10:	

Comments: Additional inspection is conducted annually on 1/3 of the 2564 miles not included in this plan